

A multiplier of 1.7 was used to obtain the maximum daily flow figures from the average daily flow figures. This multiplier reflects the actual relationship between the City's average and maximum daily flows. (The national average is 1.5.)

The forecasts are rough but are considered to be on the low side if they are in error. A large expansion of water using industry or an increase in domestic use of water could cause great increases in demand in a short period.

The design capacity of filtration facilities is based on maximum daily flow. If the above forecast is reasonably accurate, Sanford will have to expand its water treatment facility by 1967, if there is to be no shortage of water. The projection is shown graphically in Figure 7 where the projections can be compared with past demands.

#### Coordinating Water and Sewer Extensions

In the section on sewage services, the value of an informed, planned program of sewer service extension was discussed. It was mentioned that substantial initial costs and operating costs could be saved if (1) the sewer system was extended to some areas rather than others, and if (2) sewer extensions were used to guide development rather than to follow it at whatever cost. A comprehensive Sewer Study is under consideration to provide some of the basic data on the relative costs of servicing. Water distribution is not dependent on gravity flow; therefore, the cost of extensions is closely related to their lengths, but water service has the same kind of development guidance feature as sewer service. The two systems, if extensions are coordinated, can prove a useful tool for inducing growth where the benefits and costs are most suitable to the City as a whole. On the other hand, if the City commits itself to providing water services in outlying areas without regard to the public sewers that will eventually be required, it may find itself or the unhappy residents of the area (whichever pays the bill) paying for a sewer system which requires very high initial and operating costs.

#### Benefits of Planned Extensions

If extension policies are based on sound plans and a good understanding of both public and private costs and benefits, the following advantages can result:

1. The Land Use Plan, which will be modified by what is learned about sewer and water costs, can be achieved more readily. There will be less tendency for property owners and developers to find fault with the Zoning Ordinance.